

# Breakthrough prizes

September 29, 2022

**In news**– The 2023 winners of the Breakthrough Prizes, dubbed the “Oscars of Science,” were announced recently.

## Breakthrough Prizes-

- **The Breakthrough Prizes, created in 2010 by a group of Silicon Valley entrepreneurs,** are the most richly endowed awards in science, disbursing **more than the Nobel prizes.**
- These Prizes are a set of international awards bestowed in three categories by the Breakthrough Prize Board in recognition of scientific advances.
- It recognizes the world’s top scientists working in the fundamental sciences – the disciplines that ask the biggest questions and find the deepest explanations.
- **Each prize is \$3 million and presented in the fields of Life Sciences, Fundamental Physics and Mathematics.**
- In addition, the New Horizons in Physics and Mathematics Prizes and the Maryam Mirzakhani New Frontiers Prize are awarded to early-career researchers.
- The Breakthrough Prizes were **founded by Sergey Brin, Priscilla Chan and Mark Zuckerberg, Yuri and Julia Milner, and Anne Wojcicki.**

## The winners-

- Three prizes were awarded for the year 2022 in the life sciences category, one for mathematics and one for physics.
- The **Breakthrough Prize in mathematics was awarded to Daniel Spielman** of Yale University for multiple **discoveries in theoretical computer science and mathematics.**
- The **prize in fundamental physics was shared by Charles**

**Bennett, Gilles Brassard, David Deutsch** and Peter Shor for their work in quantum information.

- **Clifford Brangwynne and Anthony Hyman won a life sciences prize** for discovering a new mechanism of cellular organization.
- **The other life sciences prizes were awarded** to Demis Hassabis and John Jumper for developing AlphaFold, which **predicts the structure of proteins**, and Emmanuel Mignot and Masashi Yanagisawa for **discovering the causes of narcolepsy**.